Approved For Release 2004/08/SICIOIA-RDP68B00724R000200190076-7

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26 July 1967

MEMORANDUM FOR THE RECORD

SUBJECT: U-2R Model Spec Revision

Numerous changes to the configuration and the capability of the U-2R are reflected in the recent complete revision to the model spec dated 1 July 1967. The more significant changes are noted as follows:

- 1. Para. 3.1.2.1 The take-off gross weight has increased 634 pounds. The only significant performance impact is a reduction of 240 n.m. in range for the maximum range mission at the design gross weight and a reduction of 363 n.m. at the overload gross weight condition. This range degradation is a result of the increased gross weight, a revised engine performance specification and additional wind tunnel test results. Significantly, the maximum altitude mission is essentially unaffected.
- 2. Para. 3.2.5 The tail pipe has been added to the interchangeable list and folding wing tips and the scoop leading edge assembly have been added to the list of replaceable items.
- 3. Para. 3.4.2 The "shifted" configuration now consists of a symmetrical deflection of the flaps of approximately $6\frac{1}{4}^{0}$ up and of the ailerons of approximately $7\frac{1}{2}^{0}$. These deflections previously were 4^{0} and 10^{0} respectively.
- 4. Para. 3.5.1 Basic internal structural provisions for droppable stores are now included in the wing group.
- 5. Fig. 6 The center of gravity has shifted aft approximately 1% from the previous position and at certain gross weights, it is now very near the aft limit.
- 6. Para. 3.6.1 The horizontal tail trim travel has been increased from 4° to 5° .
- 7. Para. 3.12.9.7 The fuel feed line strainer assembly has been changed from 60 mesh to 200 mesh.

USAF review(s) completed.

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- 8. Para. 3.13.1 Two 50 ampere-hour batteries for emergency electrical power are now used in lieu of one 25 ampere-hour battery.
- 9. Para. 3.16.1.1 In-flight ventilation of the full pressure suit will now be provided.
- 10. Para. 3.17.1.5 Two 28 channel recorders in lieu of one recorder will now be installed to automatically record specific aircraft and mission equipment signals. The pilot's UMY-20 recorder installation has been deleted.
- 11. Para. 3.17.1.6 Provisions for VHF-101 radio communications are now included.

		25X1
13. Para, 3.17.2.4 - The	has replaced	25X1
14. Para. 3.17.2.6 - The been added.	has	25X1
		25X1A

ASD/R&D/OSA

25X1A

25X1

ASD/R&D/OS sjs (26 July 1967)

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